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Missing angles gcse exam questions

Click here for Answers angle, right, straight line, point, full turn, vertically, opposite, basic, facts, triangle, quadrilateral The angles in a triangle add up to 180\degree \textcolor{red}{a} + \textcolor{skyblue}{b} + \textcolor{green}{c} = 180\degree The angles in a quadrilateral (4 sided shape) add up to 360\degree \textcolor{red}{a} + \textcolor{skyblue}{b} + \textcolor{green}{c} + \textcolor{yellow}{d}= 360\degree The angles on a straight line all add up to 180\degree \textcolor{red}{a} + \textcolor{skyblue}{b} + \textcolor{green}{c} = 180\degree The angles around a point all add up to 360\degree \textcolor{red}{a} + \textcolor{skyblue}{b} + \textcolor{green}{c} + \textcolor{yellow}{d}= 360\degree The two sides marked with the lines are the same length. The two base angles, the textcolor (text color, red, are identical. Find the value of x in the displayed triangle: [2 markers] We know that angles in a triangle add up to 180 degrees, 40 degrees + 80 degrees + X-degree = 180-degree-x= 180-degree-40-degree -80-degree - 80-degree = 60-degree-x= 60-degree Find the value of x in the displayed triangle: [2 markers] We know that in a uniform triangle the base angles are equal. Das bedeutet, dass wir die Gleichung bilden können: x-Grad + x-Grad + 50-Grad = 180-Grad-2x-Grad = 180-Grad - 50-Grad-2x = 130-Grad-X-Grad = 65-Grad-Winkel auf einer geraden Linie addieren sich zu 180-Grad-Grad-Begin-Ausrichtung 103-Grad-CDB -Winkel-CDB &= 1 80 Grad , Winkel-CDB&= 180-Grad-103-Grad = 77-Grad-,End-Ausrichtung Winkel um einen Punkt, die alle addiert werden, um 360-Grad-100-Grad+50-Grad+-Grad+105-Grad =360-Grad-Grad-X=360-Grad-100-Grad- Die Basiswinkel in einem gleichgroßen Gleichlandgleichungsdreieck sind gleich, und die Winkel in einem Dreieck summieren sich zu 180 Grad 61 Grad+ 61 Grad + Grad + Grad =180-Grad-Grad-Grad-Grad =180-Grad-Grad =180-Grad-Grad-61-Grad-61-Grad-Grad-Y=58 Die Basiswinkel in einem gleichsimzierten Dreieck sind gleich, und die Winkel in einem Dreieck ergeben sich bis zu 180 Grad, die sich auf 180 Grad s/x/x+55-Grad-/180-Grad-Wert s/2x&=180-Grad-55-Grad- = 125-Grad-Wert , x&=-dfrac,125-degree {2}, Aligned x=62.5-degree angles on a straight line add up to 180-degree angles, so x=180-degree 115-degree angles in a triangle up to 180-degree Y=180-degree-25-degree-65-degree-Y=90-degree attempt of a revision card for this topic. 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Read moreFreeReport a problem Click here for Answers angle, right, straight line, point, full turn, vertically, opposite, basic, facts, triangle, quadrilateral The angles in a triangle add up to 180\degree \textcolor{red}{a} + \textcolor{skyblue}{b} + \textcolor{green}{c} = 180\degree The angles in a quadrilateral (4 sided shape) add up to 360\degree \textcolor{red}{a} + \textcolor{skyblue}{b} + \textcolor{green}{c} + \textcolor{yellow}{d}= 360\degree The angles on a straight line all add up to 180\degree \textcolor{red}{a} + \textcolor{skyblue}{b} + \textcolor{green}{c} = 180\degree The angles around a point all add up to 360\degree \textcolor{red}{a} + \textcolor{skyblue}{b} + \textcolor{green}{c} + \textcolor{yellow}{d}= 360\degree The two sides marked with the lines are the same length. The two base angles, the textcolor (text color, red, are identical. 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Added angles add up to 180-degree anglen. Text color, Maroon + Textcolor green = 180-degree These can be called either allied angles or inner angles. Locate the X angle in the figure below. BD and EC are parallel lines. Specify which angle rule you used for each step. [2 brands] Currently, we can't see a rule that connects the EFC to x. First, we will use the fact that angles on a straight line add up 180 degrees. In particular, they add the EFC angle and the CFG angle to 180 degrees. This means that we can do the following: cfG = 180-degree - 32-degree = 148-degree. If we now look at the diagram, we see that the angle CFG and the missing angle x are corresponding angles. Therefore, we get x = 148 degree. As already mentioned, there are several ways of asking this question. Based on the corresponding angles we find that there are angles and text and we get ,angle-text-GHC-=41-degree Then, as text is a straight line, we can use the fact that angles on a straight line sum up to 180-degrees, x = 180-degree-41-degree =139-degrees First, because angle HFG and angle EFC are vertically opposite, we get angle text = 48 degrees Second, because angle EFC and angle BCA (angle x) are corresponding angles, we get angle text = x = 48 degrees First, by the angles FGJ and CDG corresponding angles, we get angles, since the angles on a straight line add to 180 degrees and the angles CDG and CDA are on a straight line, the angles cdG and CDA are on a straight line, , the text, THE CDA = 180 - 121 = 59 degrees third, again with the fact that angles on a straight line add to 180-degree, and angle cdA, BDE, and ADB (also known as angle x) are on a straight line, we get x + 50 + 59 = 180,-text, so x = 180 - 109 = 71-degrees first, because angles BEF and EHJ are corresponding angles, ,Text angle EHJ = 39 degrees. Next, since angleed EDH and and are alternative angles, we get text angle DHG = 76 degrees. Since the angles DHG, DHE and EHJ angles are on a straight line and add angles on a straight line to 180 degrees, we get text angle DHE = 180 - 76 - 39 = 65-degree Finally, since angle DHE and angle x are vertically opposite angles, we get x = 65 degrees. There are other possible ways to ask this question. As long as you have applied the angle facts correctly, explained each step and received the answer to 71 degrees, your answer is correct. Try a revision card on this topic. Topic.